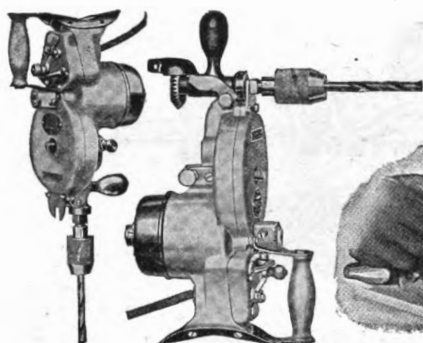
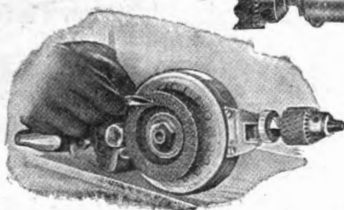


Western Electric

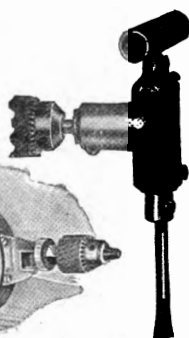
Electric Drills



Model B Drill Model B Drill
Showing General ing Method of Using
Construction Breaker Feature



Garage Type



Valve
Grinder



Model C Drill
Similar in Construc-
tion to Model B

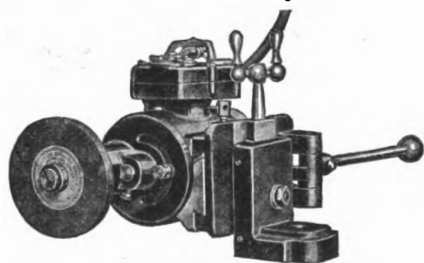
Western Electric Portable Drills

These drills are thoroughly reliable, strongly built, light in weight and convenient in shape. They operate on either alternating or direct current and are reversible. Attachment is made to the ordinary drop cord or incandescent lamp socket.

Model B: Has the breakover feature for changing drills or taps instantly by hand without the use of chuck wrench or key.

Model C: Has two speeds, the gears running in grease. It has the offset spindle, allowing close quarter drilling.

List No.	Type	Max. Diameter of Drill for Drilling		Max. Diameter of Tap for Tapping		*List Price with Cord and Plug
		Thick Steel	Wood	Thin Steel	Iron	
	Model B Drill	$\frac{3}{8}$ ins.	$\frac{1}{2}$ to $\frac{3}{4}$ ins.	$\frac{1}{8}$ ins.	$\frac{1}{4}$ ins.	
220000	With $\frac{3}{8}$ in. chuck					\$90.00
220002	With Jacobs geared chuck					94.00
220003	Add for emery wheel attachment					3.00
220004	Add for valve grinder attachment					12.00
220007	Complete Garage Outfit (Model B Drill with Nos. 220000, 220003 and 220004)					105.00
	Model C Drill	$\frac{3}{8}$ in.	1 to $1\frac{1}{2}$ ins.	$\frac{3}{8}$ in.	$\frac{3}{8}$ in.	
220005	With $\frac{1}{2}$ in. chuck for S. S. Drills					\$130.00
220006	With ratchet feed with $\frac{1}{2}$ in. chuck for S. S. Drills					136.00
220008	With No. 2 Morse Taper Drills					135.00



Tool Post Grinder



Buffer and Polisher

Western Electric Tool Post Grinder

This tool is not only adapted for grinding centers on lathes, but also for grinding dies, reamers and cutters and for universal grinding as well.

List No.		*List Price with Cord and Plug
220009	Tool Post Grinder, complete	\$90.00

Western Electric Buffer and Polisher

This tool is very useful for buffing and polishing brass, steel and other metals and when equipped with the small emery wheel is well adapted for light grinding also.

220010	Buffer and Polisher, complete	\$44.00
--------	-------------------------------	---------

*Delivery F. O. B. Factory, Leipsic, O. For warehouse deliveries write nearest house.

Western Electric

PORTABLE DRILLS



Model A



Model O

Western Electric Portable Electric Drills

Model A Drill. This tool was designed for drilling in either metal or wood. It will run on either alternating or direct current. The offset spindle allows drilling in close corners. The main driving spindle is run in a tobir bronze bushing, two inches in length. The lower handle can be readily removed when necessary.

The body is made of aluminum thoroughly strengthened and supported where the strain is most severe. Arrangements are made for positive and effective oiling for the motor shafts, driving spindle and all parts that are subjected to wear. The gears are accurately machined and run in grease. This drill is very light and convenient to handle. It is especially useful for drilling in sheet metal of all kinds. Also for drilling name plate and oiler holes and for light drilling in wood.

Model O Drill. Specially designed for drilling in cast iron, brass and other soft metals. Also for light drilling in wood.

The general construction is similar to Model A drill except in Model O drill the chuck spindle is in the center of the motor body and is directly connected to the motor shaft without gear reduction. The chuck spindle runs in a tobir bronze bushing of ample bearing surface; will operate on either alternating or direct current.

Model	Length Over All with Chuck	Capacity in Steel and Other Metals	Distance from Center of Chuck to Edge of Motor	Weight Complete	*List Price Each
A	14 in.	$\frac{1}{4}$ in.	$\frac{3}{8}$ in.	9 lbs.	\$56.00
O	15 $\frac{1}{2}$ in.	$\frac{1}{8}$ in.	8 lbs.	40.00

*Delivery F. O. B. Factory, Leipsic, O. For warehouse deliveries write nearest house.

Western Electric

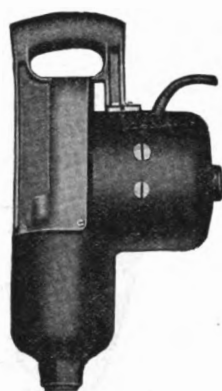
HAMMERS



No. 2 and 3



No. 4 and 6



No. 7

Electric Hammers

These hammers will do the work of pneumatic tools of like capacity at about 15% of the power cost and without the expense and inconvenience of compressor, air piping hose, etc. Over hand work, the economy is from 80% to 90%, and it is by no means uncommon for a tool to save its cost in a week. Every tool is controlled by a switch mounted in the handle and equipped with flexible cord and plug. They may be attached to any lamp socket.

These hammers are built in two types: For direct current and for universal service. The Universal tools operate on either direct current or alternating current of any commercial frequency. These tools are particularly adapted for putting up fixtures on a concrete ceiling, dressing French burr stones in a paint mill, cleaning scale off of condenser tube, for channeling plaster in an office building, for bush hammering a concrete wall, for drilling solid concrete, drilling for pipe racks in a brick wall, chipping gray iron castings, cutting openings for I beams, etc.

Supporting stands are strongly recommended for all overhead work. The use of these stands takes the jar and strain off the operator and keeps the tool pressed tight against the work.

The proper selection of steels to be used in different kinds of material is extremely important.

Electric Hammers

DIRECT CURRENT ONLY—110 OR 220 VOLTS

Type	Capacity in Concrete Diameter	Power Cons. in Watts	Blows per Minute	Net Wt. in Lbs.	Shpg. Wt. in Lbs.	List Price Each
D-3	$\frac{1}{2}$ in.	150	4000	14	20	\$180.00
D-4	1 in.	220	1800	25	35	225.00
D-7	$1\frac{1}{2}$ ins.	550	1300	50	65	289.00

Universal

OPERATE ON DIRECT CURRENT OR ALTERNATING CURRENT

25-30 or 60 Cycles—110 or 220 Volts

U-2	$\frac{1}{2}$ in.	150	4000	15	21	\$225.00
U-6	1 in.	240	1800	27	37	270.00

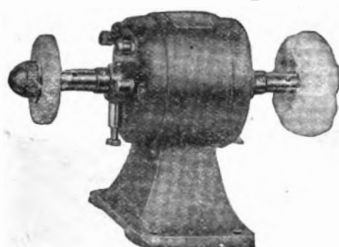
For stand to be used with the above electric hammer, literature and prices furnished on application.

NOTE: The capacities given are conservative and approximate. The tools cannot be forced, the strength of the blow is constant and the capacity depends upon economical drilling speeds only. There is no danger of burning out the machines.

Each tool is complete with 10 feet of cord and plug and runs from a lighting socket.

Delivery F. O. B., Chicago, Ill. For warehouse deliveries write nearest house.

Western Electric
BUFFING AND GRINDING OUTFITS
DOMESTIC TYPE



DSS 1/30 H.P. Motor on High Base with Double Shaft Extensions and Attachments

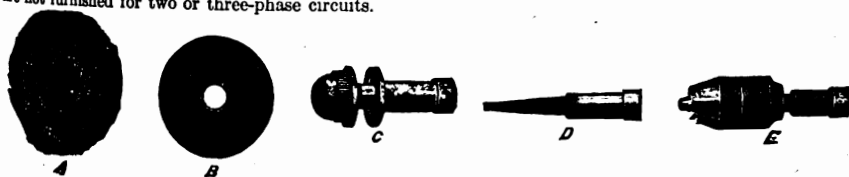
Types DSS and DSD Motors

H.P.	**Speed R.P.M.	Volts	Cycles	List No. (Complete Outfit)	List Price (Complete Outfit)	Shipping Weight in Lbs. (Approx.)	††List Allowance		Frame Symbol
							Rag Wheel	Emery Wheel	
ALTERNATING CURRENT—SINGLE PHASE—TYPE DSS									
1/30	1800	110	60	151376	\$35.50	26	\$0.80	\$1.00	W12
1/30	1800	220	60	151377	37.50	26	.80	1.00	W12
1/30	2400	110	40	151378	39.50	28	.80	1.00	W14
1/30	2400	220	40	151379	41.50	28	.80	1.00	W14
1/40	1500	110	25	151380	39.50	28	.80	1.00	W14
1/40	1500	220	25	151381	41.50	28	.80	1.00	W14
DIRECT CURRENT—SHUNT WOUND—TYPE DSD									
1/30	1700	110	..	151382	\$34.50	25	\$0.80	\$1.00	W13
1/30	1700	220	..	151383	36.50	25	.80	1.00	W13

**These speeds are "synchronous" for alternating current motors and "full load" for direct current motors.

Motors listed above are the so-called domestic buffing and grinding outfits and consist of totally enclosed motor mounted on a high base and furnished with separable straight shaft extension attachments on both ends, together with a 3½ inch rag buffing wheel and a 3 inch emery grinding wheel, which are included at prices indicated, and may be used as separate sale prices as well as allowances.

The single phase motors are provided with solid armatures, i.e., without clutches. The above motors are not furnished for two or three-phase circuits.



Attachments for Small Power Motors

A—3½ inch rag buffing wheel, B—3 inch emery grinding wheel, C—Straight spindle shaft attachment, D—Taper spindle shaft attachment, E—Star chuck attachment.

Shaft Attachment List No.	††List Price	Adapted to Shaft, 1 Inch Extension Diameter	Descriptive	For Alternating Current Motors Frame Symbol	For Direct Current Motors Frame Symbol
103580	\$4.00	¾ in.	Straight Spindle*	W12	W13
103581	2.00	¾ in.	Taper Spindle	W14	W15
103582	5.50	¾ in.	"Star" Chuck†	W14	W16
			Attachment		
103587	\$5.00	½ in.	Straight Spindle*	W22 W42	W23 and W33
103588	3.00	½ in.	Taper Spindle	W25 W45	
103589	6.50	½ in.	"Star" Chuck†	W33 W46	
			Attachment	W35 W48	
				W36 W49	

*Straight spindles for ¾ and ½ inch shafts are furnished complete with 3½ inch rag buffing wheel (included at \$0.80 list) and 3 inch emery grinding wheel (included at \$1.00 list).

†Star chuck attachment may be used for light drilling purposes, drills not furnished.

Note: The attachments for ¾ and ½ inch shafts are not applicable to oil ring bearing motors.

††Delivery: F. O. B. Factory, Lynn, Mass. For warehouse deliveries write nearest house.